NEC

NEC MD213MC

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NEC Display Solutions

NEC MD Series Digital Color Display Systems

Display Systems for Primary Diagnostics of Medical Images
The NEC MD213MC (L218TJ) flat panel display systems for viewing of color and grayscale digital images for diagnosis by trained physicians. Applications include diagnostics image reporting in radiography as well as CT, MRI and other medical imaging techniques. To guarantee the display performance as specified, a MD213MC display must only be used in conjunction with NEC approved display controller boards.

Key Features:
- 21.3" (3.0 MP image resolution: 2048 x 1560 pixels in portrait orientation)
- Unique X-Light® 3 Backlight System for long lasting stable white point and simple matching in the field
- Individual factory calibrated DICOM gamma correction curve
- Precise DICOM GSDF calibration using internal 12-bit look-up table
- GammaCompMD Client Software compatible

NEC MD213MC

TECHNICAL SPECIFICATIONS

Panel technology	UA-SFT TFT
Screen diagonal [inch/cm]	21.3 / 54.0
Active screen area [cm]	43.2 x 32.4
Native resolution [Megapixel]	3
Landscape / Portrait mode [Pixel]	2048 x 1560 / 1560 x 2048 at 60 Hz
Pixel pitch [mm]	0.2115 x 0.2115
Contrast ratio (typ.)	750:1
Viewing angle (H / V @ CR > 10:1)	176°/ 176°
Luminance (maximum Native)	800 cd/m²
Luminance (calibrated)	400 cd/m², recommended
Response time (typ.) [ms]	24 (t_r + t_f)
Color reproduction [Bit-Depth]	8-bit (256 grey tones per R G B input) with 16,777, 216 total colors
Programmable gamma correction	12-bit (4096 grey tones)
Factory calibration	Gamma correction according to DICOM GSDF at 400 cd/m²
Signal inputs	Digital: 1 x DVI-D; 1 x DVI-I; Analog: 1 x Mini D-Sub 15 pin
Horizontal frequency [kHz]	31.5 - 94.8
Vertical frequency [Hz]	50.0 - 85.0
Power consumption (max.) [W]	130
Power saving mode [W]	<2.0
Power requirements	100 - 240V AC 2.0 A/0.5 A; integrated power supply
Dimensions (W x H x D) [mm]	358.6 x 477.9 - 627.9 x 247.3 (portrait); 464.8 x 424.8 - 574.8 x 247.3 (landscape)
Weight (including stand) [kg]	10.9
Stand features	150 mm height adjust range, Tilt, Swivel, Screen rotation
Safety and ergonomics	Pending: CE-MDD (EN60601-1, EN60601-1-2); TÜV Approved Medical Device (TÜV GM); DIN V6868-57 Category A; FDA510(k), CCC
Ambient temperature (operating) [°C]	+5 to +30
Ambient humidity (operating) [%]	30 to 80 (non-condensing)
VESA mounting interface [mm]	100 x 100 (4 points)
Kensington Lock (Theft security)	yes
Other advanced features	X-Light® 3 Backlight System for stable white luminance and white point; Individual factory calibrated DICOM gamma correction curve; Precise DICOM GSDF calibration using internal 12-bit look-up table; Control buttons on cabinet back side, with virtual keypad on screen; Multiple OSD lock-out modes to prevent tampering with calibrated screen
Approved Display Controllers	Choice of ATI,Matrox and nVIDIA models for best imaging performance and compatibility with GammaCompMD software
Warranty	3 years warranty incl. backlight
Shipping contents	Display; Continental and UK power cord; Signal Cable DVI-D to DVI-D; Multiple language quick reference guide; DVD-ROM with User Guides, GammaCompMD Client QA Software and approved display controller drivers
Options	Calibration instrument (MDSVSENSOR), Protective screen (click-on option)

NEC MD SERIES COLOR DISPLAY SYSTEMCONFIGURATIONS*

Display Model variety	3 Megapixel Single or Dual Display
Display controller board variety	AMD/ATI, Matrox and nVIDIA PCI Express Bus
Software	GammaCompMD Client Software

CE-MDD declaration for model MD213MC is in accordance with the European Directive 93/42/EEC (Medical Device Directive). NEC MD Series Display Systems are registered as medical devices at DIMDI and succeeded pre-qualification for the German X-ray ordinance acceptance tests according to DIN V6868-57.

For further informationen please contact us at: med-info@nec-displays.com
www.medical.nec-display-solutions.com

A typical NEC MD Series Display System configuration
1 Single or Dual head displays
2 Display Controller Board
3 GammaCompMD Quality Assurance Software
4 Calibrator (optional)

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www.nec-displays.co.uk
Display Solutions, NEC (UK) Ltd, 1 Victoria road, London W3 6BL
Phone: +44 (0)870 0120 1160, e-mail: info@nec-displays.com